

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A video encoding method with support for editing when scene changed, the distance between two reference pictures being defined as M in a GOP, the method comprising the steps of:

capturing pictures in a display order;

detecting the scene change for a picture  $PIC_n$ ; and

coding the pictures in a coding order when there is not a scene change occurred for the picture  $PIC_n$ , and coding the pictures by a special processing when there is a scene change occurred for the picture  $PIC_n$ ;

the special processing comprising:

executing a first and a third coding stages when the picture  $PIC_{n-1}$  is not a reference picture; and

executing a second and the third coding stages when the picture  $PIC_{n-1}$  is a reference picture;

wherein the first coding stage is to re-code the picture  $PIC_{n-1}$  as a P-picture type, the second coding stage is to code the ~~B-pictures~~ pictures of B-picture type preceding the picture  $PIC_{n-1}$ , and the third coding stage is to start a new GOP, to code a picture  $PIC_{n+M-1}$  as a I-picture type, and to code the pictures  $PIC_n$  to  $PIC_{n+M-2}$  as ~~B-pictures~~ B-picture type with only referencing to the picture  $PIC_{n+M-1}$ .

2. (Currently Amended) The video encoding method of claim 1, wherein the first coding stage finishes coding the pictures of B-picture type B-pictures if there are pictures of B-picture type B-pictures preceding a previous reference picture.

3. (Currently Amended) The video encoding method of claim 1, wherein the first coding stage codes the pictures of B-picture type B-pictures if there are pictures of B-picture type B-pictures preceding the picture  $PIC_{n-1}$ .